

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P637824

Luminaire Tested: GWS-SA4D-750-U-SLR-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637824
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-43)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4D-750-U-SLR-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND
SPILL LIGHT ELIMINATOR RIGHT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (64) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19599.1 lumens
Efficiency: N/A
Efficacy: 120.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

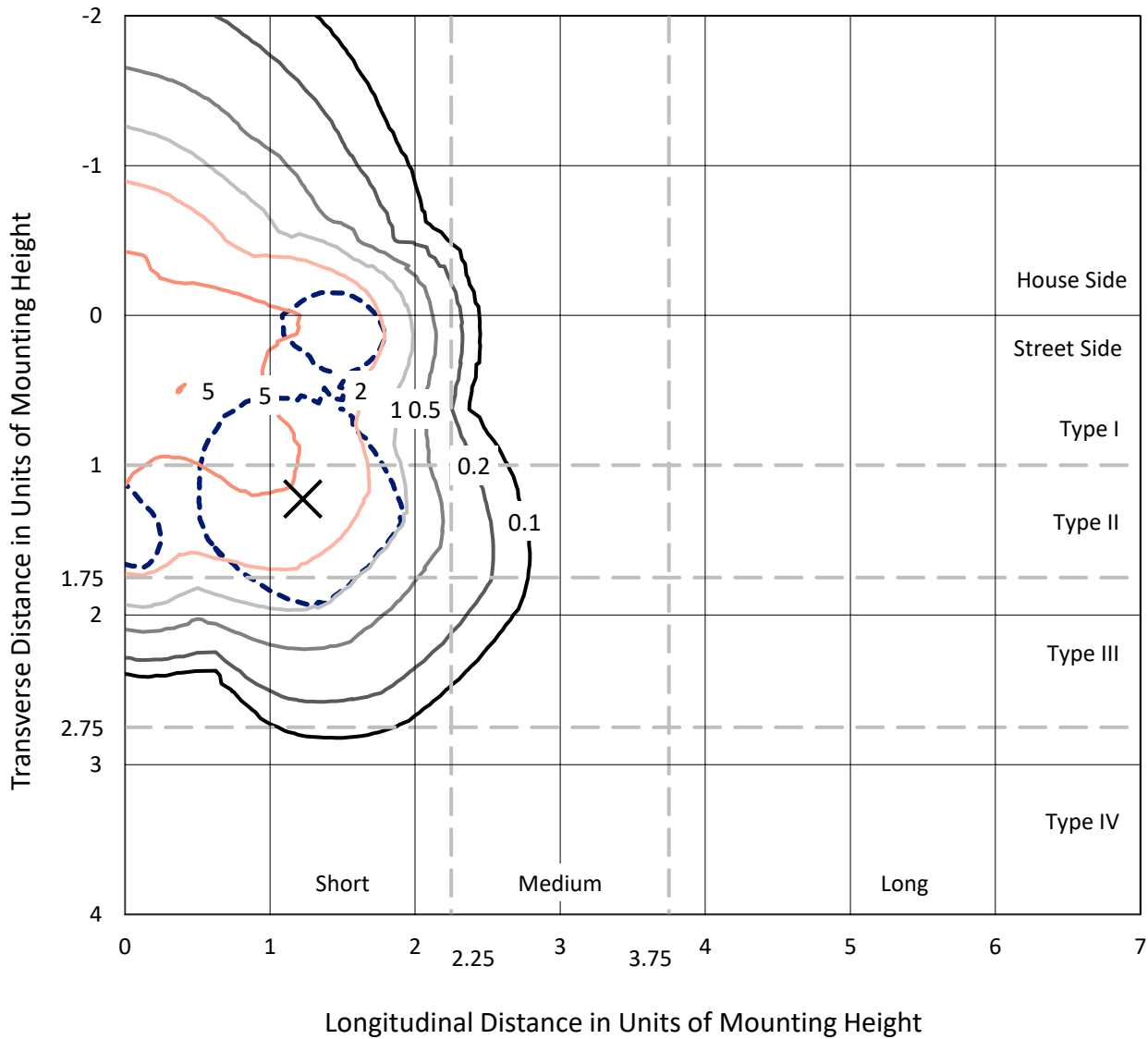


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Iso-Footcandle Lines of Horizontal Illumination

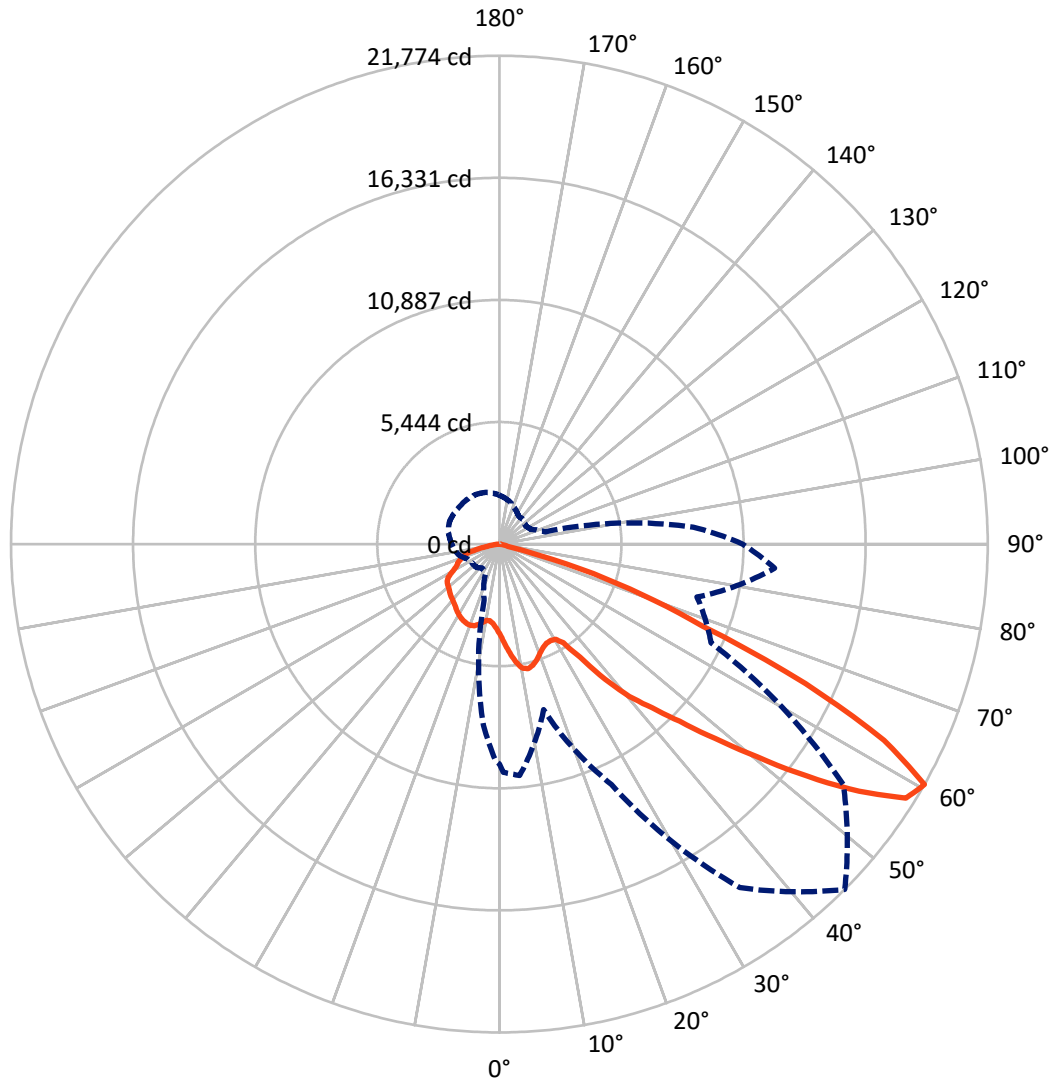
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6870.2	0.0	6870.2
	% Fixture	35.1	0.0	35.1
Street Side	Lumens	12728.9	0.0	12728.9
	% Fixture	64.9	0.0	64.9
Total	Lumens	19599.1	0.0	19599.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	392.8	2.0
10°-20°	1241.3	6.3
20°-30°	2016.4	10.3
30°-40°	2843.7	14.5
40°-50°	3929.9	20.1
50°-60°	5059.0	25.8
60°-70°	3205.4	16.4
70°-80°	822.5	4.2
80°-90°	88.0	0.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	19599.1	100.0
0°-180°	19599.1	100.0

Coefficient of Utilization



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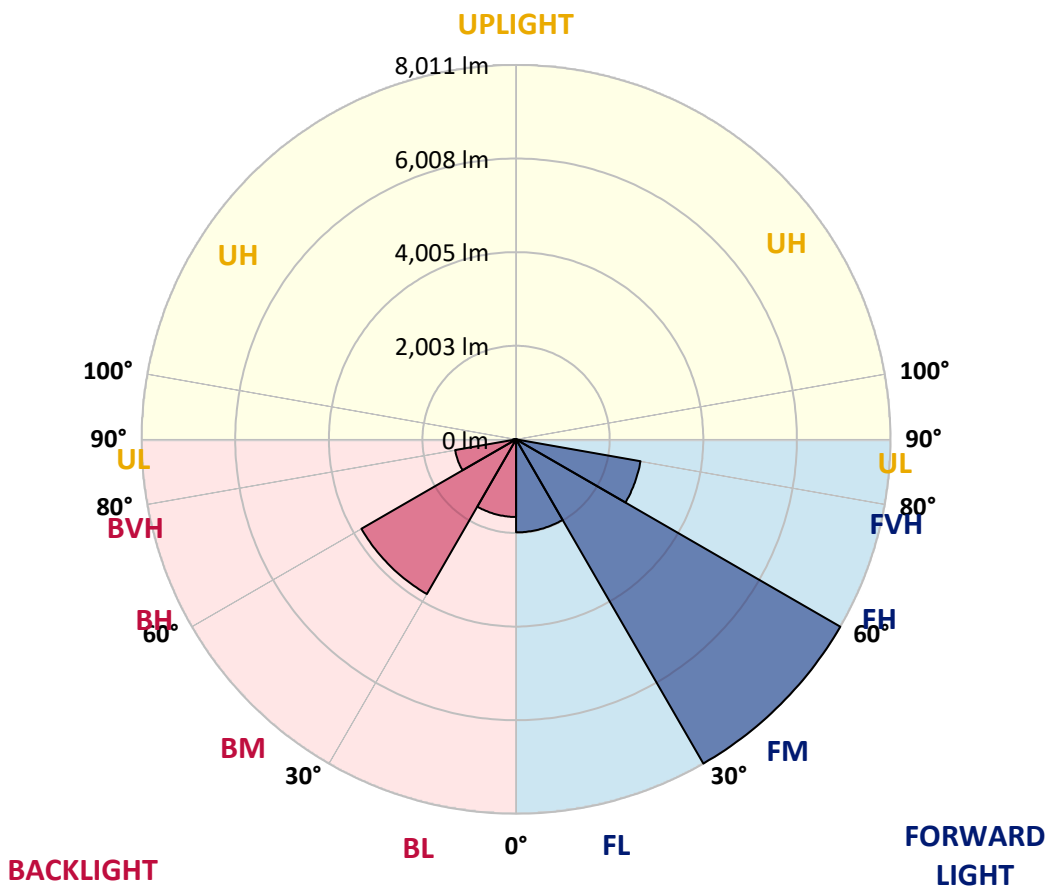
CATALOG NUMBER: GWS-SA4D-750-U-SLR-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1990.0	10.2			
FM (30°-60°)	8011.0	40.9			
FH (60°-80°)	2704.0	13.8			G2/5000
FVH (80°-90°)	23.9	0.1			G1/100
BL (0°-30°)	1660.5	8.5	B3/2500		
BM (30°-60°)	3821.7	19.5	B3/5000		
BH (60°-80°)	1323.9	6.8	B3/2500		G3/2500
BVH (80°-90°)	64.1	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4026.2	4026.2	4026.2	4026.2	4026.2	4026.2	4026.2	4026.2	4026.2	4026.2	4026.2
2.5°	4211.2	4239.9	4257.9	4292.0	4353.1	4387.2	4424.9	4383.6	4394.4	4389.0	4322.5
5°	4460.8	4494.9	4541.6	4642.2	4755.3	4818.2	4877.4	4868.5	4812.8	4719.4	4653.0
7.5°	4694.3	4733.8	4814.6	4978.0	5145.0	5242.0	5313.8	5267.1	5220.5	5073.2	4906.2
10°	4877.4	4900.8	5010.3	5229.4	5423.4	5532.9	5620.9	5610.1	5545.5	5380.3	5155.8
12.5°	5049.8	5066.0	5184.5	5403.6	5577.8	5626.3	5698.1	5721.5	5699.9	5576.0	5355.1
15°	5234.8	5265.3	5374.9	5541.9	5620.9	5570.6	5595.8	5660.4	5721.5	5721.5	5518.6
17.5°	5407.2	5434.2	5545.5	5617.3	5541.9	5409.0	5416.2	5498.8	5644.3	5796.9	5667.6
20°	5559.9	5585.0	5694.5	5626.3	5387.5	5193.5	5188.1	5288.7	5523.9	5845.4	5827.4
22.5°	5726.9	5762.8	5854.4	5633.5	5243.8	4997.8	4996.0	5100.1	5418.0	5893.9	6010.6
25°	5963.9	6019.6	6066.3	5696.3	5166.6	4870.3	4893.6	4992.4	5383.9	5972.9	6281.8
27.5°	6315.9	6360.8	6357.2	5827.4	5163.0	4818.2	4866.7	4981.6	5444.9	6113.0	6567.3
30°	6696.6	6720.0	6682.2	6010.6	5245.6	4850.5	4922.3	5058.8	5599.4	6344.6	6987.5
32.5°	7118.6	7147.4	7075.5	6285.4	5437.7	5089.4	5247.4	5313.8	5816.7	6678.7	7432.9
35°	7603.5	7659.2	7510.1	6648.1	6003.4	5960.3	6190.2	6104.0	6278.2	7073.7	7908.8
37.5°	8113.5	8115.3	7901.6	7185.1	7113.2	7186.9	7646.6	7377.2	7256.9	7513.7	8393.7
40°	8546.3	8535.5	8206.9	7908.8	8079.4	8372.1	8927.0	8514.0	8197.9	8104.5	8795.9
42.5°	8979.1	8939.6	8607.4	8368.5	8745.6	9347.2	9974.0	9467.6	8801.3	8641.5	9192.8
45°	9532.2	9519.6	9119.2	8551.7	9347.2	10439.1	11270.6	10449.9	9158.7	8954.0	9853.7
47.5°	10424.7	10363.7	9618.4	8537.3	9911.1	11893.7	12944.3	11687.2	9408.3	8961.1	10920.4
50°	11297.5	11222.1	10214.6	8535.5	10493.0	13402.2	14919.7	13190.3	9663.3	9004.2	12005.1
52.5°	12179.3	12179.3	11193.3	8738.5	11103.6	15086.7	17202.2	15063.3	10097.9	9568.1	13339.4
55°	12703.6	12843.7	12294.2	9081.5	11818.3	17069.3	19459.5	17085.4	10769.5	10586.4	14571.3
57.5°	12037.4	12299.6	12220.6	8842.6	12240.3	18525.7	21373.9	18619.1	11101.8	10706.7	14386.3
60°	9808.8	10173.3	10354.7	7635.8	11823.7	18694.5	21774.3	18719.6	10415.8	9117.4	12322.9
62.5°	6520.6	6820.5	7097.1	5455.7	10236.2	16817.9	19258.4	16823.2	8699.0	6804.4	8537.3
65°	3198.4	3421.0	3719.1	3225.3	7996.8	14052.3	15014.9	13594.4	6292.6	3808.9	4354.9
67.5°	836.9	899.7	941.0	1251.7	5728.7	10096.1	9792.6	9943.5	4042.4	1244.5	1138.6
70°	434.6	438.2	436.4	517.2	3871.8	6416.5	6748.7	6244.1	2821.2	520.8	449.0
72.5°	310.7	312.5	307.1	348.4	1869.4	3676.0	3808.9	3767.6	1478.0	308.9	307.1
75°	202.9	204.7	201.1	204.7	281.9	418.4	386.1	405.9	246.0	195.7	195.7
77.5°	120.3	122.1	120.3	123.9	120.3	120.3	111.3	111.3	106.0	106.0	107.7
80°	80.8	80.8	79.0	82.6	75.4	75.4	71.8	70.0	64.6	62.9	62.9
82.5°	48.5	50.3	48.5	48.5	44.9	44.9	41.3	39.5	34.1	34.1	32.3
85°	25.1	25.1	23.3	23.3	19.8	18.0	14.4	14.4	10.8	9.0	9.0
87.5°	3.6	3.6	1.8	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4026.2	4026.2	4026.2	4026.2	4026.2	4026.2	4026.2	4026.2	4026.2	4026.2	4026.2
2.5°	4304.6	4268.7	4214.8	4162.7	4114.2	4063.9	4006.5	3947.2	3896.9	3844.9	3817.9
5°	4565.0	4491.3	4351.3	4227.4	4116.0	4024.4	3925.7	3841.3	3762.2	3697.6	3665.3
7.5°	4800.2	4685.3	4473.4	4277.6	4126.8	4001.1	3864.6	3738.9	3632.9	3553.9	3523.4
10°	5017.5	4881.0	4602.7	4354.9	4178.9	4038.8	3871.8	3701.2	3561.1	3457.0	3431.8
12.5°	5193.5	5037.3	4705.0	4417.7	4209.4	4058.6	3911.3	3764.0	3625.8	3491.1	3469.5
15°	5349.7	5164.8	4782.3	4457.2	4198.6	4006.5	3882.6	3864.6	3864.6	3712.0	3668.9
17.5°	5484.4	5281.5	4845.1	4475.2	4130.4	3852.0	3776.6	3932.8	4108.8	3999.3	3902.3
20°	5638.9	5392.8	4897.2	4475.2	4004.7	3656.3	3649.1	3914.9	4175.3	4177.1	4074.7
22.5°	5795.1	5522.1	4958.3	4459.0	3832.3	3430.0	3562.9	3843.1	4074.7	4173.5	4103.4
25°	6048.3	5701.7	5055.2	4446.5	3631.1	3275.6	3485.7	3747.9	3943.6	4047.8	4002.9
27.5°	6369.8	5938.8	5202.5	4466.2	3431.8	3184.0	3403.1	3624.0	3801.8	3893.3	3861.0
30°	6728.9	6211.7	5360.5	4500.3	3288.1	3137.3	3304.3	3482.1	3640.1	3731.7	3717.3
32.5°	7186.9	6508.1	5497.0	4453.6	3207.3	3114.0	3200.2	3327.7	3480.3	3537.8	3550.3
35°	7734.6	6834.9	5601.2	4270.5	3133.7	3088.8	3087.0	3166.0	3273.8	3365.4	3374.3
37.5°	8239.2	7217.4	5716.1	3956.2	3000.8	3026.0	2954.1	3000.8	3106.8	3198.4	3234.3
40°	8738.5	7605.3	5875.9	3555.7	2826.6	2885.9	2801.5	2833.8	2918.2	3038.5	3096.0
42.5°	9223.3	7955.5	6044.7	3146.3	2652.4	2690.1	2627.3	2659.6	2747.6	2898.5	2963.1
45°	9751.3	8429.6	6175.8	2760.2	2501.6	2485.4	2435.1	2481.8	2614.7	2779.9	2857.2
47.5°	10749.8	9176.6	6262.0	2503.4	2420.8	2304.0	2246.6	2347.1	2498.0	2665.0	2758.4
50°	11969.1	10257.7	6236.9	2340.0	2350.7	2117.3	2097.5	2230.4	2392.0	2566.2	2668.6
52.5°	12935.3	11319.1	5951.3	2183.7	2214.2	1998.7	1941.3	2135.2	2289.7	2467.5	2573.4
55°	13673.4	11676.4	5075.0	1998.7	1991.6	1912.5	1792.2	2036.5	2187.3	2352.5	2467.5
57.5°	13071.8	10880.9	3762.2	1743.7	1700.6	1741.9	1625.2	1869.4	2061.6	2225.0	2327.4
60°	10848.6	8675.6	2095.7	1544.4	1422.3	1522.9	1504.9	1693.5	1925.1	2097.5	2185.5
62.5°	7364.7	5777.2	1242.7	1221.2	1152.9	1296.6	1391.8	1515.7	1743.7	1883.8	1966.4
65°	3670.7	2806.9	826.1	914.1	923.1	1066.7	1246.3	1382.8	1573.1	1716.8	1799.4
67.5°	1064.9	872.8	628.5	698.6	795.5	910.5	1054.1	1215.8	1400.7	1571.3	1668.3
70°	459.7	465.1	499.2	581.8	677.0	795.5	939.2	1097.2	1253.5	1384.6	1458.2
72.5°	325.0	337.6	375.3	459.7	549.5	662.7	806.3	959.0	1072.1	1205.0	1282.2
75°	208.3	217.3	247.8	312.5	378.9	488.5	624.9	765.0	881.7	976.9	1050.6
77.5°	114.9	116.7	141.9	179.6	224.5	294.5	395.1	504.6	590.8	644.7	711.1
80°	66.4	66.4	79.0	102.4	129.3	172.4	228.1	281.9	334.0	368.1	400.5
82.5°	35.9	35.9	41.3	55.7	70.0	95.2	127.5	154.4	186.8	204.7	226.3
85°	10.8	10.8	14.4	19.8	25.1	35.9	50.3	64.6	79.0	91.6	104.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	4026.2	4026.2	4026.2	4026.2	4026.2	4026.2	4026.2	4026.2	4026.2	4026.2	4026.2
2.5°	3812.5	3787.4	3773.0	3755.1	3760.4	3744.3	3735.3	3740.7	3708.4	3740.7	3773.0
5°	3652.7	3616.8	3588.0	3564.7	3553.9	3532.4	3519.8	3519.8	3500.1	3532.4	3571.9
7.5°	3512.6	3483.9	3469.5	3455.2	3439.0	3419.2	3397.7	3390.5	3377.9	3412.1	3446.2
10°	3419.2	3422.8	3431.8	3451.6	3448.0	3435.4	3403.1	3385.1	3385.1	3424.6	3476.7
12.5°	3462.3	3500.1	3521.6	3557.5	3564.7	3553.9	3521.6	3507.2	3543.2	3602.4	3688.6
15°	3629.4	3654.5	3672.5	3701.2	3699.4	3690.4	3665.3	3676.0	3794.6	3909.5	3986.7
17.5°	3810.7	3782.0	3778.4	3796.4	3801.8	3791.0	3776.6	3825.1	4020.8	4128.6	4168.1
20°	3941.8	3843.1	3821.5	3828.7	3843.1	3837.7	3837.7	3916.7	4119.6	4169.9	4119.6
22.5°	3981.3	3841.3	3808.9	3810.7	3830.5	3832.3	3841.3	3923.9	4042.4	4044.2	3967.0
25°	3918.5	3783.8	3760.4	3764.0	3787.4	3785.6	3789.2	3835.9	3888.0	3866.4	3808.9
27.5°	3800.0	3683.2	3676.0	3695.8	3726.3	3710.2	3699.4	3712.0	3737.1	3710.2	3659.9
30°	3665.3	3566.5	3570.1	3607.8	3640.1	3613.2	3586.3	3593.4	3595.2	3566.5	3509.0
32.5°	3523.4	3449.8	3462.3	3501.9	3539.6	3510.8	3482.1	3478.5	3444.4	3410.3	3354.6
35°	3381.5	3352.8	3369.0	3401.3	3433.6	3410.3	3392.3	3381.5	3307.9	3257.6	3210.9
37.5°	3252.2	3273.8	3302.5	3322.3	3333.0	3331.2	3320.5	3295.3	3198.4	3139.1	3078.0
40°	3137.3	3203.7	3234.3	3243.3	3259.4	3255.8	3254.0	3218.1	3090.6	3027.8	2957.7
42.5°	3033.1	3126.5	3178.6	3187.6	3196.6	3198.4	3193.0	3140.9	2995.4	2921.8	2855.4
45°	2932.6	3054.7	3121.1	3112.2	3124.7	3124.7	3130.1	3061.9	2902.0	2826.6	2756.6
47.5°	2844.6	2988.2	3049.3	3038.5	3045.7	3051.1	3056.5	2977.5	2799.7	2727.9	2656.0
50°	2763.8	2916.4	2968.5	2972.1	2972.1	2984.7	2982.9	2905.6	2713.5	2636.3	2564.4
52.5°	2677.6	2842.8	2898.5	2921.8	2929.0	2934.4	2909.2	2819.4	2625.5	2532.1	2465.7
55°	2577.0	2767.4	2817.6	2848.2	2862.5	2858.9	2824.8	2733.2	2535.7	2442.3	2366.9
57.5°	2424.4	2605.7	2677.6	2691.9	2715.3	2700.9	2661.4	2584.2	2392.0	2298.7	2221.4
60°	2257.3	2388.4	2445.9	2458.5	2440.5	2445.9	2440.5	2366.9	2199.9	2126.3	2047.2
62.5°	2038.3	2155.0	2216.0	2232.2	2201.7	2221.4	2214.2	2122.7	1955.6	1878.4	1808.4
65°	1873.0	2000.5	2072.4	2081.4	2072.4	2081.4	2056.2	1944.9	1786.8	1707.8	1636.0
67.5°	1743.7	1874.8	1950.3	1975.4	1966.4	1964.6	1925.1	1795.8	1632.4	1546.2	1454.6
70°	1521.1	1636.0	1733.0	1794.0	1794.0	1759.9	1684.5	1564.2	1433.1	1359.4	1287.6
72.5°	1346.9	1492.3	1587.5	1650.4	1662.9	1643.2	1537.2	1409.7	1258.9	1185.2	1109.8
75°	1109.8	1251.7	1354.0	1436.7	1452.8	1431.3	1309.2	1183.4	1043.4	971.5	896.1
77.5°	741.7	826.1	908.7	984.1	967.9	982.3	899.7	804.5	718.3	664.5	630.3
80°	418.4	474.1	499.2	540.5	540.5	540.5	486.7	441.8	393.3	362.8	328.6
82.5°	237.0	273.0	283.7	317.9	326.8	328.6	292.7	264.0	233.5	217.3	193.9
85°	109.5	129.3	131.1	150.8	158.0	172.4	156.2	136.5	118.5	111.3	97.0
87.5°	3.6	10.8	14.4	26.9	35.9	41.3	44.9	44.9	37.7	34.1	28.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	4026.2	4026.2	4026.2	4026.2	4026.2	4026.2	4026.2	4026.2	4026.2	4026.2
2.5°	3812.5	3855.6	3905.9	3941.8	4006.5	4060.4	4116.0	4177.1	4222.0	4211.2
5°	3620.4	3692.2	3783.8	3868.2	3988.5	4110.6	4245.3	4383.6	4464.4	4460.8
7.5°	3512.6	3615.0	3726.3	3839.5	3981.3	4157.3	4363.8	4579.3	4688.9	4694.3
10°	3570.1	3679.6	3755.1	3850.2	3999.3	4220.2	4468.0	4726.6	4852.3	4877.4
12.5°	3751.5	3742.5	3737.1	3805.3	3984.9	4265.1	4568.6	4877.4	5019.3	5049.8
15°	3923.9	3738.9	3627.6	3674.2	3920.3	4293.8	4667.3	5042.7	5202.5	5234.8
17.5°	3956.2	3676.0	3469.5	3501.9	3817.9	4302.8	4762.5	5204.3	5376.7	5407.2
20°	3866.4	3595.2	3354.6	3309.7	3688.6	4279.4	4821.8	5339.0	5527.5	5559.9
22.5°	3753.3	3523.4	3268.4	3151.7	3530.6	4256.1	4888.2	5480.8	5698.1	5726.9
25°	3634.7	3431.8	3187.6	3009.8	3351.0	4241.7	4999.6	5667.6	5929.8	5963.9
27.5°	3509.0	3320.5	3117.5	2941.6	3185.8	4259.7	5157.6	5969.3	6267.4	6315.9
30°	3374.3	3209.1	3072.6	2918.2	3072.6	4275.8	5331.8	6278.2	6628.4	6696.6
32.5°	3234.3	3106.8	3026.0	2929.0	3002.6	4238.1	5484.4	6624.8	7059.4	7118.6
35°	3094.2	3002.6	2966.7	2948.7	2909.2	4099.9	5608.3	6975.0	7551.4	7603.5
37.5°	2963.1	2894.9	2884.1	2903.8	2765.6	3873.6	5752.0	7420.3	8034.5	8113.5
40°	2841.0	2778.1	2776.3	2772.7	2607.5	3564.7	5946.0	7872.9	8510.4	8546.3
42.5°	2727.9	2648.8	2663.2	2620.1	2478.2	3230.7	6129.1	8259.0	8954.0	8979.1
45°	2627.3	2523.1	2539.3	2485.4	2417.2	2880.5	6290.8	8715.1	9516.1	9532.2
47.5°	2530.3	2419.0	2374.1	2370.5	2406.4	2557.2	6448.8	9593.3	10396.0	10424.7
50°	2440.5	2320.2	2192.7	2271.7	2340.0	2314.8	6646.3	10534.3	11304.7	11297.5
52.5°	2354.3	2196.3	2014.9	2167.6	2167.6	2135.2	6590.7	11105.4	12055.3	12179.3
55°	2255.6	1997.0	1829.9	1993.4	1914.3	1973.6	5604.8	11292.1	12527.6	12703.6
57.5°	2059.8	1750.9	1605.5	1693.5	1574.9	1829.9	4026.2	10365.5	11724.9	12037.4
60°	1871.2	1569.5	1474.4	1458.2	1303.8	1492.3	2609.3	8115.3	9650.7	9808.8
62.5°	1650.4	1413.3	1332.5	1208.6	1048.8	1086.5	1580.3	5340.8	6484.7	6520.6
65°	1483.3	1280.4	1126.0	978.7	858.4	788.4	933.8	2575.2	3241.5	3198.4
67.5°	1273.2	1097.2	950.0	844.0	745.3	657.3	621.4	765.0	865.6	836.9
70°	1133.2	964.4	822.5	721.9	630.3	542.3	479.5	450.8	441.8	434.6
72.5°	976.9	829.7	682.4	585.4	499.2	418.4	361.0	326.8	317.9	310.7
75°	779.4	641.1	506.4	414.8	339.4	281.9	244.2	215.5	210.1	202.9
77.5°	515.4	411.2	301.7	246.0	201.1	170.6	145.5	127.5	123.9	120.3
80°	283.7	237.0	185.0	149.1	120.3	104.2	95.2	84.4	82.6	80.8
82.5°	168.8	141.9	106.0	84.4	70.0	62.9	57.5	52.1	50.3	48.5
85°	84.4	66.4	46.7	39.5	35.9	32.3	32.3	26.9	25.1	25.1
87.5°	21.5	18.0	10.8	9.0	9.0	9.0	7.2	5.4	5.4	3.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)